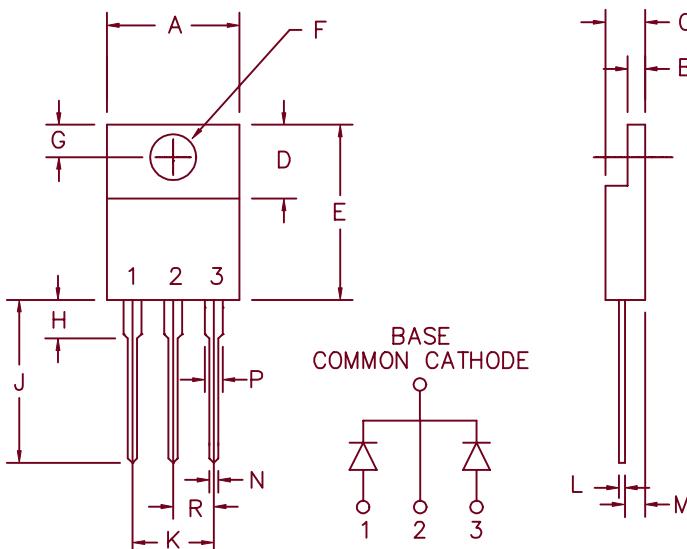


Ultra Fast Recovery Rectifiers

UFT2010 – UFT2020



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.390	.415	9.91	10.54	
B	.045	.055	1.14	1.40	
C	.180	.190	4.57	4.83	
D	.245	.260	6.22	6.60	
E	.550	.650	13.97	16.51	
F	.139	.161	3.53	4.09	Dia.
G	.100	.135	2.54	3.43	
H	---	.250	---	6.35	
J	.500	.580	12.70	14.73	
K	.190	.210	4.83	5.33	
L	.014	.022	.357	.559	
M	.080	.115	2.03	2.92	
N	.015	.040	.380	1.02	
P	.045	.070	1.14	1.78	
R	.090	.110	2.29	2.79	

PLASTIC TO-220AB

Microsemi Catalog Number

UFT2010
UFT2015
UFT2020

Repetitive Peak Reverse Voltage

100V
150V
200V

Transient Peak Reverse Voltage

100V
150V
200V

- Ultra Fast Recovery Rectifier
- 175°C Junction Temperature
- V_{RRM} 100 TO 200 Volts
- 2 x 10 Amps current rating
- t_{RR} 35 nsec maximum

Electrical Characteristics

Average forward current per pkg
Average forward current per leg
Maximum surge current
Max peak forward voltage
Max reverse recovery time
Max peak reverse current
Typical junction capacitance

| F(AV) 20 Amps
| F(AV) 10 Amps
| FSM 200 Amps
V FM 0.95 Volts
 t_{RR} 35 ns
I RM 10 μ A
CJ 70pF

T_C = 151°C, Square wave, $R_{\theta JC}$ = 1°C/W
T_C = 151°C, Square wave, $R_{\theta JC}$ = 2°C/W
8.3ms, half sine, T_J = 175°C
FM = 10A; T_J = 25°C*
1/2A, 1A, 1/4A, T_J = 25°C
 $V_{RRM}, T_J = 25^\circ C$
VR = 10V, T_J = 25°C

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range
Operating junction temp range
Max thermal resistance per leg
Max thermal resistance per pkg.
Mounting torque
Weight

T_{STG}
T_J
 $R_{\theta JC}$
 $R_{\theta JC}$

-55°C to 175°C
-55°C to 175°C
2.0°C/W Junction to Case
1.0°C/W Junction to Case
10-15 inch pounds
0.08 ounces (2.3 grams) typical

UFT2010 - UFT2020

Figure 1
Typical Forward Characteristics – Per Leg

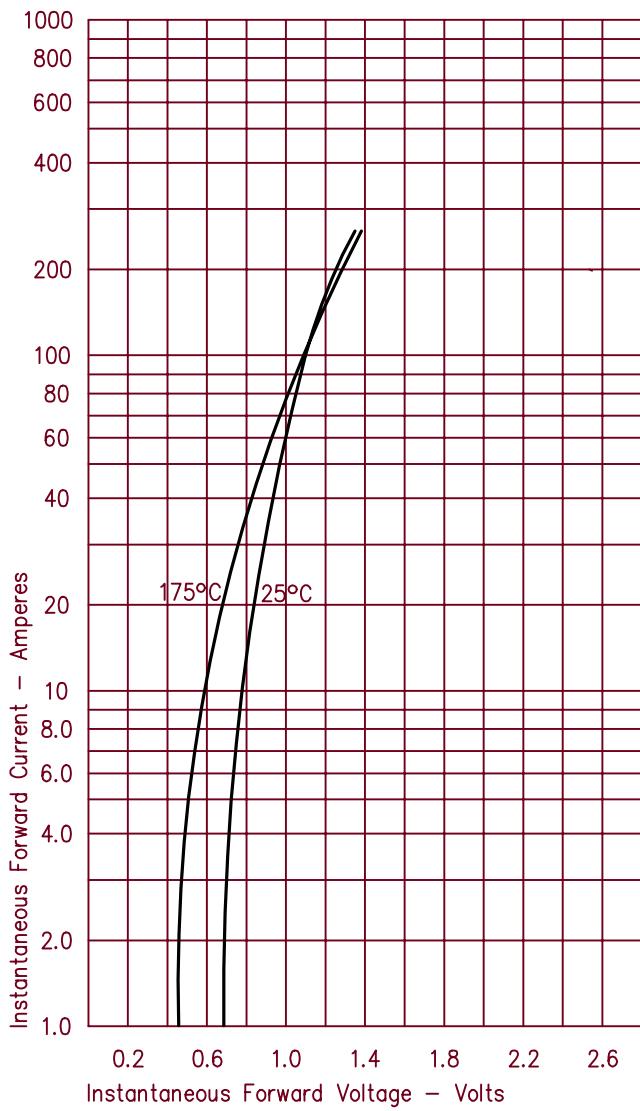


Figure 2
Typical Reverse Characteristics – Per Leg

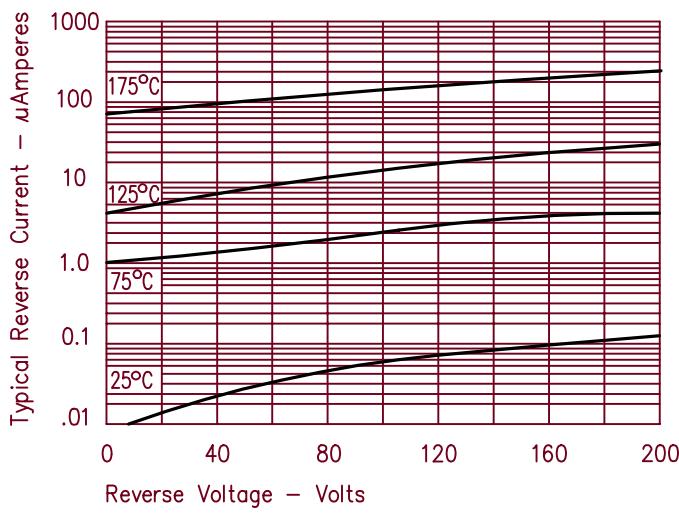


Figure 3
Typical Junction Capacitance – Per Leg

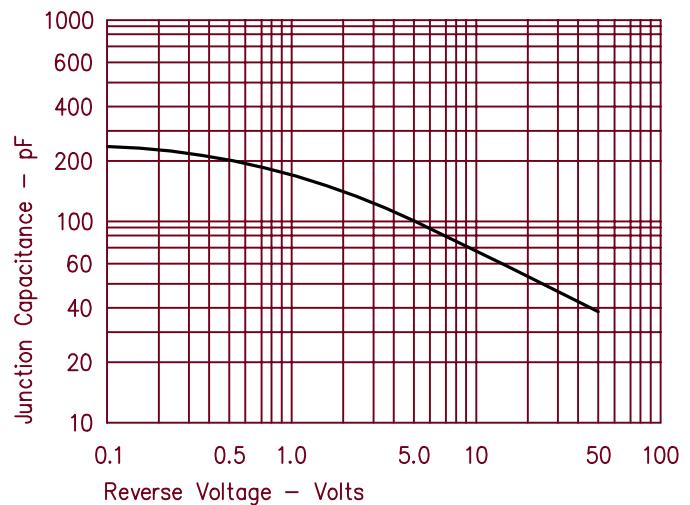


Figure 4
Forward Current Derating – Per Leg

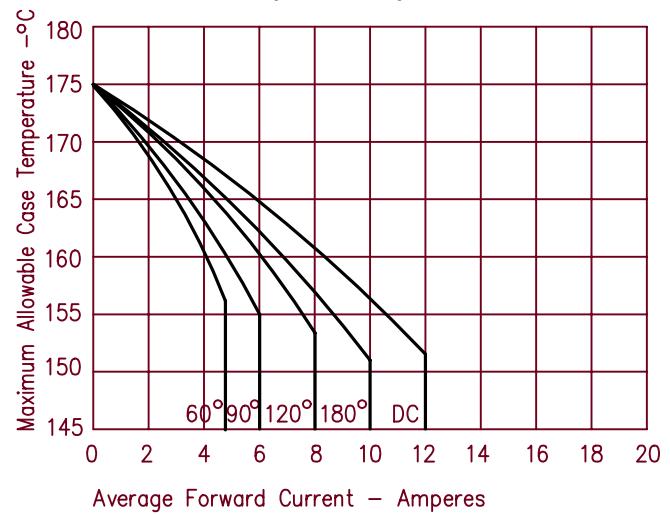


Figure 5
Maximum Forward Power Dissipation – Per Leg

